

[LB 342]

NOVEMBER 2012
M.PHARM. DEGREE EXAMS
FIRST YEAR

Sub. Code: 2903

BRANCH I – PHARMACEUTICS
PAPER III – BIOPHARMACEUTICS AND PHARMACOKINETICS

Q.P. Code : 262903

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.)(Max.)(Max.)

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|---|----|----|----|
| 1. Explain Phase I and Phase II biotransformation reactions. | 17 | 40 | 20 |
| 2. Discuss various physico-chemical and biological factors affecting drug absorption in the gastrointestinal tract. | 17 | 40 | 20 |

II. Write Notes on :

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| 1. Passive and active transport of drugs. | 4 | 10 | 6 |
| 2. Causes of non-linear pharmacokinetics and Michaelis-Menten equation. | 4 | 10 | 6 |
| 3. Factors influencing drug clearance. | 4 | 10 | 6 |
| 4. Methods of studying drug protein binding. | 4 | 10 | 6 |
| 5. Volume of distribution and factors affecting it. | 4 | 10 | 6 |
| 6. Non-compartmental methods of estimating pharmacokinetic parameters. | 4 | 10 | 6 |
| 7. Methods of measurement of bioavailability. | 4 | 10 | 6 |
| 8. Therapeutic drug monitoring and its significance. | 4 | 10 | 6 |
| 9. Classification of drug-drug interactions with examples. | 4 | 10 | 6 |
| 10. Any three methods of enhancing bioavailability of poorly water soluble drugs. | 4 | 10 | 6 |
